Index of Claims

| Application/Control No |
|------------------------|
|------------------------|

10/602,899 Examiner

Hanh V. Tran

Applicant(s)/Patent under Reexamination

**HIGHTOWER** 

Art Unit

3637

| / | Rejected | - | (Through numeral)<br>Cancelled |
|---|----------|---|--------------------------------|
| = | Allowed  | ÷ | Restricted                     |

N Non-Elected

A Appeal
O Objected

|             |  | Ш  | _        |          |          |          |          | ļ            |          |                 |  |
|-------------|--|--|----------|----------|----------|----------|----------|--------------|----------|-----------------|--|
|             |  | Date   |          |          |          |          |          |              |          |                 |  |
| Cla         | ım_  | <u> </u>   | _        |          | ᅼ        | Jate     | •        |              | _        |                 |  |
| Final       | Original   | 90/08/9  |          |          |          |          |          |              |          |                 |  |
| _           | 1  | V  |          |          | _        | Н        | $\dashv$ |              |          |                 |  |
|             | 2  | ō  |          |          |          | Н        |          | _            |          | $\dashv$        |  |
|             | 3  |  |          |          |          |          |          |              |          |                 |  |
| ·           | 4  | 0  | -        |          |          |          |          |              |          |                 |  |
|             | 1<br>2<br>3<br>4<br>5<br>6   |  |          |          |          |          |          |              |          |                 |  |
|             | 6  | ٧  |          |          |          |          |          |              |          |                 |  |
|             | 7  | V  |          |          |          |          | Ш        |              |          |                 |  |
|             | 8  | ٧  |          |          |          |          | Щ        |              |          | Щ               |  |
|             | 9  | ٧  | _        | _        | _        |          | -        | _            |          | _               |  |
| <u> </u>    | 10   | V  |          | H        | -        | $\vdash$ | Н        |              |          | $\dashv$        |  |
| <u> </u>    | 11   | v<br>v   | -        | $\vdash$ | $\vdash$ | -        | Н        | $\vdash$     |          | $\dashv$        |  |
|             | 12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23<br>24<br>25<br>26 | V  | -        | $\vdash$ | H        | $\vdash$ | $\vdash$ |              | _        | H               |  |
|             | 14   | H  |          | ╁        | ┝        |          |          |              | _        | Н               |  |
| <u> </u>    | 15   | v  |          | 一        | $\vdash$ | Н        | Н        |              |          | Н               |  |
|             | 16   | v  |          | Г        | T-       |          | П        |              |          | П               |  |
|             | 17   | 0  |          |          |          |          |          |              |          | П               |  |
|             | 18   | v  |          |          |          |          |          |              |          |                 |  |
|             | 19   | 0  |          |          |          |          |          |              |          |                 |  |
|             | 20   | 0  |          |          |          |          |          |              |          |                 |  |
|             | 21   | 0  |          |          |          |          |          |              |          |                 |  |
| <u></u>     | 22   | 0  |          |          | _        |          |          |              |          |                 |  |
| <u> </u>    | 23   | 0  | _        |          | _        | _        |          |              |          |                 |  |
|             | 24   | $\vdash$   | _        | ⊢        | <u> </u> | _        | $\vdash$ |              | _        | -               |  |
|             | 25   | V  |          | ⊢        | -        | $\vdash$ | H        | _            |          | Н               |  |
|             | 27   | ٧  |          | -        | ⊢        | H        | Н        | -            |          | H               |  |
|             | 27<br>28<br>29   | -  | $\vdash$ | H        | ┢        |          | -        | -            | $\vdash$ | Н               |  |
|             | 29   | =  |          | ┢        | ┢        | $\vdash$ | $\vdash$ |              | ┢        | Н               |  |
|             | 30   | H  | $\vdash$ | ┢        | $\vdash$ | $\vdash$ | $\vdash$ |              |          | H               |  |
|             | 30<br>31   | =  | $\vdash$ | <b>-</b> |          |          |          |              |          | H               |  |
|             | 32   | v  |          | Γ        |          |          |          |              |          |                 |  |
|             | 32<br>33   | 0  |          |          |          |          |          |              |          |                 |  |
|             | 34   | v  |          |          |          |          |          |              |          |                 |  |
|             | 35   | ٧  |          |          | 匚        |          |          |              |          | Ц               |  |
|             | 36   |  | <u> </u> | L        | _        | _        | _        | L            | <u> </u> | Ц               |  |
|             | 37   | <u> </u>   | L        | $\vdash$ | <u> </u> | _        | _        | _            | _        | Ш               |  |
|             | 38<br>39   | $\vdash$   | $\vdash$ | $\vdash$ | -        | _        | _        | _            | _        | $\vdash \vdash$ |  |
|             |  | <b>├</b>   | <u> </u> | ļ        | -        | -        | $\vdash$ | $\vdash$     | $\vdash$ | $\vdash \vdash$ |  |
|             | 40   | <del>  -  </del>                                 | -        | $\vdash$ | $\vdash$ | -        | ├        | ┝            | ├        | Н               |  |
| <del></del> | 41   | -  | -        | $\vdash$ | -        | ┢        | -        | $\vdash$     | -        | Н               |  |
|             | 43   | <del>                                     </del> | $\vdash$ | t        | $\vdash$ | $\vdash$ | $\vdash$ | <del> </del> | +-       | H               |  |
|             | 44   | $\vdash$   | H        | 一        | <u> </u> | $\vdash$ | T        | $\vdash$     | Ι-       | Н               |  |
| $\vdash$    | 45   | 1  | $\vdash$ | T        | $t^-$    |          |          |              |          | Н               |  |
|             | 46   | T  |          | Γ        | Π        | 1        |          |              |          | П               |  |
|             | 47   |  |          |          |          | Ľ        |          |              |          | П               |  |
|             | 48   |  |          |          |          |          |          |              |          |                 |  |
|             | 49   |  |          |          |          |          |          |              |          |                 |  |
|             | 50   |  |          |          |          |          |          |              |          |                 |  |

| Cla      | im       |          |  |          | C  | ate      | •        |          |          |          |
|----------|----------|----------|--|----------|--|----------|----------|----------|----------|----------|
| Final    | Original |          |  |          |  |          |          |          |          |          |
|          | 51       |          |  |          | $\neg$   |          |          |          | $\neg$   |          |
|          | 51<br>52 |          |  |          |  |          |          |          |          |          |
|          | 53       | ヿ        |  |          |  |          |          |          |          |          |
|          | 54       |          |  |          |  |          |          |          |          |          |
|          | 55       |          |  |          |  |          |          |          |          |          |
|          | 56       |          |  |          |  |          |          |          |          |          |
|          | 57       |          |  |          |  |          |          |          |          |          |
|          | 58       |          |  |          |  |          |          |          |          |          |
|          | 59       |          |  |          |  |          |          |          |          |          |
|          | 60       |          |  |          |  |          |          |          |          |          |
|          | 61       |          |  |          |  |          |          |          |          |          |
|          | 62       |          |  |          |  |          |          |          |          |          |
|          | 63       |          |  |          |  |          |          |          |          |          |
|          | 64       |          |  |          |  |          |          |          |          |          |
|          | 65       |          |  |          |  |          |          |          |          |          |
|          | 66       | $\Box$   |  |          |  |          |          |          |          |          |
|          | 67       |          |  | L        |  |          |          |          |          |          |
|          | 68       |          |  |          |  |          |          |          |          |          |
|          | 69       |          |  |          |  |          |          |          |          |          |
|          | 70       | Ш        |  | _        |  |          |          |          |          |          |
|          | 71       |          |  | 乚        |  |          |          |          |          |          |
|          | 72       |          |  | <u> </u> | <u> </u>   |          |          |          |          |          |
|          | 73<br>74 |          |  | _        | $ldsymbol{ld}}}}}}$ |          |          |          |          |          |
|          | 74       |          |  |          | L_   |          |          |          |          | _        |
| ļ        | 75       |          |  | <u> </u> | L  |          |          | L        |          |          |
| <u> </u> | 76       |          |  |          | _  |          |          |          |          |          |
| -        | 77       | Ш        | <u> </u>   | _        | _  |          | _        | _        | $\vdash$ |          |
| <u> </u> | 78       |          | _  | ┡        | <u> </u>   |          | _        | _        | -        | _        |
|          | 79       |          | _  | ⊢        | _  |          | _        | <u> </u> | _        | _        |
|          | 80       | Н        |  | ├-       | _  | H        | _        | ├        | H        | <u> </u> |
| -        | 81<br>82 |          |  | <u> </u> | ⊢  | H        | $\vdash$ | ┝        | ├        | _        |
| -        |          | <u> </u> |  | _        | -  | ┝        |          | <u> </u> | -        | -        |
| -        | 83<br>84 | -        | ┡  | $\vdash$ | ├  | $\vdash$ | -        |          | $\vdash$ | -        |
| -        | 85       |          | -  | $\vdash$ | $\vdash$   | -        | -        | -        | $\vdash$ | $\vdash$ |
|          | 86       | -        | ┢  | $\vdash$ | ⊢  | _        | $\vdash$ | -        | _        | -        |
|          | 87       | $\vdash$ | -  | ┢        | -  | -        | -        |          |          | ┢        |
| -        | 88       | H        | ┝  | $\vdash$ | -  | -        | -        |          | _        | -        |
| -        | 89       | $\vdash$ | -  | $\vdash$ | -  | $\vdash$ | -        | $\vdash$ |          |          |
|          | 90       | $\vdash$ | <del>                                     </del> | ╁╴       |  | -        |          |          | Г        |          |
|          | 91       | Н        |  |          | T  |          | $\vdash$ |          |          |          |
| <b> </b> | 92       | $\vdash$ | $\vdash$   | Т        | Г  | $I^-$    |          | Г        | Г        | Т        |
|          | 93       | $\Box$   |  | † T      | ΙΤ   | T        |          |          | Г        |          |
|          | 94       | П        |  | Π        | Г  | Γ        |          |          |          | Γ        |
|          | 95       | Г        |  |          |  |          |          |          |          |          |
|          | 96       |          |  | L        |  |          | L        | L        | L        |          |
|          | 97       |          |  | $\Gamma$ | $L^-$  |          | Ĺ        | L        | L        |          |
|          | 98       |          |  |          |  |          |          |          |          | L.       |
|          | 99       |          |  |          |  |          |          |          |          |          |
|          |          | _        |  | 1        | T-   |          |          |          |          | 1        |

100

| Claim         Date           E         D           101         0           102         0           103         0           104         0           105         0           106         0           107         0           108         0           109         0           110         0           111         0           112         0           113         0           114         0           115         0           116         0           117         0           118         0           119         0           120         0           121         0           122         0           123         0           124         0           125         0           130         0           131         0           132         0           133         0           134         0           135         0           136         0           137  | <u> </u>    | nim      | Date     |          |          |            |                                |  |              |          |                     |  |
|---|-------------|----------|----------|----------|----------|------------|--------------------------------|--|--------------|----------|---------------------|--|
| 101       102         103       104         105       106         107       108         109       110         111       112         113       114         115       116         117       118         119       120         121       122         123       124         125       126         127       128         129       130         131       132         133       134         135       136         137       138         139       140         141       142         143       143   | _ Cla       |          |          |          | _        | Jate       | ;                              |  |              | _        |                     |  |
| 107   | Final       | Original |          |          |          |            |                                |  |              |          |                     |  |
| 107<br>108<br>109<br>110<br>111<br>112<br>113<br>114<br>115<br>116<br>117<br>118<br>119<br>120<br>121<br>122<br>123<br>124<br>125<br>126<br>127<br>128<br>129<br>130<br>131<br>132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>141   |             | 101      |          |          |          |            |                                |  |              |          |                     |  |
| 107<br>108<br>109<br>110<br>111<br>112<br>113<br>114<br>115<br>116<br>117<br>118<br>119<br>120<br>121<br>122<br>123<br>124<br>125<br>126<br>127<br>128<br>129<br>130<br>131<br>132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>141   |             | 102      | Ш        |          |          |            | _                              |  |              | Щ        | _                   |  |
| 107   |             | 103      |          |          |          |            |                                |  |              | -        | $\dashv$            |  |
| 107   |             | 104      | Н        | $\vdash$ |          |            | _                              | _  |              | $\dashv$ | $\dashv$            |  |
| 107<br>108<br>109<br>110<br>111<br>112<br>113<br>114<br>115<br>116<br>117<br>118<br>119<br>120<br>121<br>122<br>123<br>124<br>125<br>126<br>127<br>128<br>129<br>130<br>131<br>132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>141   |             | 105      |          | Н        |          |            | -                              | Н  |              | -        | -                   |  |
| 108       109         110       111         111       112         113       114         115       116         117       118         119       120         121       122         123       124         125       126         127       128         129       130         131       132         133       134         135       136         137       138         139       140         143       143   |             | 107      | Н        |          |          |            | _                              |  |              |          | $\vdash$            |  |
| 111       112         113       114         115       116         117       118         119       120         121       122         123       124         125       126         127       128         129       130         131       132         133       134         135       136         137       138         139       140         143       143   |             | 108      |          |          |          |            |                                | П  |              |          |                     |  |
| 111       112         113       114         115       116         117       118         119       120         121       122         123       124         125       126         127       128         129       130         131       132         133       134         135       136         137       138         139       140         143       143   |             | 109      |          |          |          |            |                                |  |              |          |                     |  |
| 111       112         113       114         115       116         117       118         119       120         121       122         123       124         125       126         127       128         129       130         131       132         133       134         135       136         137       138         139       140         143       143   |             | 110      |          |          |          |            |                                |  |              |          |                     |  |
| 113         114         115         116         117         118         119         120         121         122         123         124         125         126         127         128         129         130         131         132         133         134         135         136         137         138         139         140         141         142         143   |             | 111      |          |          |          | _          | _                              |  |              |          |                     |  |
| 116 117 118 119 120 121 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141   |             | 112      |          |          |          | _          |                                | L  |              |          | $\blacksquare$      |  |
| 116 117 118 119 120 121 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141   |             | 113      | $\vdash$ | _        |          | _          | -                              | <u> </u>   | $\vdash$     | <u> </u> | $\vdash \vdash$     |  |
| 116 117 118 119 120 121 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141   |             | 114      | $\vdash$ | -        | $\vdash$ | -          | -                              | ┡  | -            | $\vdash$ | ${oldsymbol{dash}}$ |  |
| 118         119         120         121         122         123         124         125         126         127         128         129         130         131         132         133         134         135         136         137         138         139         140         141         142         143   |             | 116      | -        | -        | $\vdash$ | _          | -                              | <del>                                     </del> | Ι            | $\vdash$ | $\vdash \vdash$     |  |
| 118         119         120         121         122         123         124         125         126         127         128         129         130         131         132         133         134         135         136         137         138         139         140         141         142         143   |             | 117      | -        | Н        | $\vdash$ | -          | $\vdash$                       | Н  | $\vdash$     |          | Н                   |  |
| 119       120         121       122         123       124         125       126         127       128         129       130         131       132         133       134         135       136         137       138         139       140         141       142         143       143   |             | 118      |          |          |          | _          | Г                              | T  |              |          |                     |  |
| 132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143  |             | 119      |          |          |          |            |                                |  |              |          |                     |  |
| 132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143  |             | 120      |          |          |          |            |                                |  |              |          |                     |  |
| 132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143  |             | 121      |          |          |          |            |                                |  |              |          |                     |  |
| 132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143  |             | 122      | <u> </u> | _        | <u> </u> | <u> </u>   |                                | <u> </u>   | _            |          |                     |  |
| 132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143  |             | 123      | <u> </u> |          |          | <u> </u>   |                                | ļ  | <u> </u>     | _        | Щ                   |  |
| 132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143  |             | 124      | -        | -        | _        | ├-         | -                              | ⊢  |              | ┝        |                     |  |
| 132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143  |             | 125      | ├        | $\vdash$ | ├-       | ┢─         | $\vdash$                       | ⊢  | ┝            | ├─       | Н                   |  |
| 132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143  |             | 127      |          | -        |          |            |                                | $\vdash$   | -            |          | H                   |  |
| 132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143  |             | 128      |          | -        |          |            |                                |  |              |          | П                   |  |
| 132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143  |             | 129      |          |          |          |            |                                |  |              |          |                     |  |
| 132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143  |             | 130      |          |          |          |            |                                |  |              |          |                     |  |
| 134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143  |             | 131      | L        | <u> </u> |          |            | <u> </u>                       | <u> </u>   |              |          | Ш                   |  |
| 134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143  |             | 132      | _        | _        | _        | <u> </u>   | _                              | ┞  | <u> </u>     | <u> </u> | Ш                   |  |
| 135   136   137   138   139   140   141   142   143   143   144   142   143   143   144 |             | 133      | ├—       | $\vdash$ | -        | _          | _                              | ļ  | _            | <u> </u> | Н                   |  |
| 136<br>137<br>138<br>139<br>140<br>141<br>142<br>143  |             | 134      | ┢╌       | -        | $\vdash$ | -          | -                              | -  | $\vdash$     | -        | $\vdash$            |  |
| 137<br>138<br>139<br>140<br>141<br>142<br>143   | _           | 136      | -        | $\vdash$ | $\vdash$ | -          | $\vdash$                       | ╁╌   | $\vdash$     | H        | $\vdash$            |  |
| 138 139 140 141 142 143 143 143 143 144 145 144 144 144 144 144 144 144 144   |             | 137      | ┢╌       | $\vdash$ | 1        | Ι-         | $\vdash$                       | t  |              |          | Н                   |  |
| 140<br>141<br>142<br>143  | <u> </u>    | 138      | 1        |          | Г        |            | Г                              |  | Г            | $\vdash$ | П                   |  |
| 140<br>141<br>142<br>143  |             | 139      |          |          |          |            |                                |  |              |          |                     |  |
| 142   |             | 140      |          |          |          |            |                                |  |              |          |                     |  |
| 143   |             |          | L_       | L        |          |            | $oxedsymbol{oxedsymbol{oxed}}$ | L  |              |          |                     |  |
|   | <u> </u>    |          | $\vdash$ | L        | <u> </u> | <b> </b> _ | L                              | ـ  | $\vdash$     | <u> </u> | <u> </u>            |  |
| 144   | <u> </u>    |          | $\vdash$ | <u> </u> | ├-       | $\vdash$   | $\vdash$                       | ╀  | ├-           | <u> </u> | $\vdash$            |  |
| 145   | <u> </u>    |          | ├        | -        | $\vdash$ | _          | $\vdash$                       | ├  | <del> </del> | ⊢        | -                   |  |
| 145   | <u> </u>    |          | ╁        | ├-       | $\vdash$ | ├          | ├                              | $\vdash$   | $\vdash$     | ┢        | -                   |  |
| 147   | <del></del> | 147      | $\vdash$ | 1        | $\vdash$ | -          | $\vdash$                       | $\vdash$   | $\vdash$     | ╁╴       | $\vdash$            |  |
| 148   | <u> </u>    | 148      | $t^-$    | $\vdash$ | $\vdash$ | 1-         | $\vdash$                       | T  | 一            | $t^{-}$  | Н                   |  |
| 149   |             | 149      | 1        | Η        | 1        | Т          | Т                              | T  | Τ            | Т        | П                   |  |
| 150   |             | 150      |          |          |          |            |                                |  |              |          |                     |  |